

Form PTO-1449

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ocket Number (Optional)
MSA-021.01 (20974-2101)Application Number
09/617,720Applicant
Nicklin et al.Filing Date
7/17/2000Group Art Unit
1646 1647**U.S. PATENT DOCUMENTS**

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FH	AA 5,698,399	12/16/97	Duff et al.	435	6	4/5/96
	AB 5,686,246	11/11/97	Korman et al.	435	6	8/3/95
	AC 5,593,826	1/14/97	Fung et al.	435	6	4/16/93
	AD 5,498,531	3/12/96	Jarrell	435	91.31	4/10/93
	AE 5,459,039	10/17/95	Modrich et al.	435	6	3/18/94
	AF 5,328,470	7/12/94	Nabel et al.	604	101	7/26/91
	AG 5,264,564	11/23/93	Matteucci	536	23.1	7/30/90
	AH 5,256,775	10/26/93	Froehler	536	25.6	10/26/93
	AI 5,223,409	6/29/93	Ladner et al.	435	69.7	3/1/91
	AJ 5,198,346	3/30/93	Ladner et al.	435	69.1	7/26/90
	AK 5,176,996	1/5/93	Hogan et al.	436	6	12/22/89
	AL 5,096,815	3/17/92	Ladner et al.	435	69.1	1/6/89
	AM 5,093,246	3/3/92	Cech et al.	435	91	8/3/90
	AN 4,683,195	7/28/87	Mullis et al.	435	6	2/7/86
↓	AO 4,656,127	4/7/87	Mundy	435	6	4/23/84

		DATE	COUNTRY	CLASS	SUBCLASS	Translation YES	NO
FH	AP WO 99/24615	5/20/99	PCT	C12N	5/00		
	AQ WO 98/54359	12/3/98	PCT	C12Q	1/68		
	AR WO 98/40517	9/17/98	PCT	C12Q	1/68		
	AS WO 98/15653	4/16/98	PCT	C12Q	1/68		
	AT WO 94/16101	7/21/94	PCT	C12Q	1/68		
	AU WO 92/15694	9/17/92	PCT	C12N	15/85		
	AV WO 91/07660	5/30/91	PCT	G01N	33/53		
	AW WO 91/02087	2/21/91	PCT	C12Q	1/68		
	AX WO 90/11364	10/4/90	PCT	C12P	19/30		
	AY WO 88/09810	12/15/88	PCT	C12N	5/00		
↓	AZ WO 88/04300	6/16/88	PCT	C07H	17/02		

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16407**OTHER DOCUMENTS***(Including Author, Title, Date, Pertinent Pages Etc.)*

		Baravaya, K. et al., "Detection of Point Mutations with a Modified Ligase Chain reaction (Gap-LCR)", Nucleic Acids Research 23(4): 675-682 (1995).
FH	BB	Altschul, S. et al., "Basic Local Alignment Search Tool", J. Mol. Biol. 215: 403-410 (1990).
	BC	Arkin, A. and Douglas C. Youvan, "An algorithm for protein engineering: Simulations of recursive ensemble mutagenesis", PNAS 89:7811-7815 (August 1992).
	BD	Barany, Francis, "Genetic disease detection and DNA amplification using cloned thermostable ligase", PNAS 88:189-193 (Jan. 1991).
	BE	Been, M. and Thomas R. Cech, "One Binding Site Determines Sequence Specificity of Tetrahymena Pre-rRNA Self-Splicing, Trans-Splicing, and RNA Enzyme Activity", Cell 47: 207-216 (Oct. 24, 1986).
	BF	Ben-Bassat, A. et al., "Processing of the Initiation Methionine from Proteins: Properties of the <i>Escherichia coli</i> Methionine Aminopeptidase and its Gene Structure", J. Bacteriology 169(2): 751-757 (Feb. 1997).
	BG	Benoist, C. and Pierre Chambon, "In vivo sequence requirements of the SV40 early promoter region", Nature 290: 304-310 (March 1981).
	BH	Bergers, G. et al., "Alternative promoter usage of the Fos-responsive gene <i>Fit-1</i> generates mRNA isoforms coding for either secreted or membrane-bound proteins related to the IL-1 receptor" EMBO Journal 13(5): 1176-1188 (1994).
	BI	Blakemore, A. et al., "Interleukin-1 receptor antagonist allele (IL1RN*2) associated with nephropathy in diabetes mellitus", Hum. Genet. 97: 369-374 (1996).
	BJ	Blakemore, A. et al., "Interleukin-1 Receptor Antagonist Gene Polymorphism as a Disease Severity Factor in Systemic Lupus Erythematosus", Arthritis & Rheumatism 37: 1380-1385 (Nov. 9, 1994).
	BK	Bomsztyk, K. et al., "Evidence for different interleukin 1 receptors in murine B- and T-cell lines", PNAS 86:8034-8038 (Oct. 1989).
	BL	Borghaei, R. et al., "Induction of Mitogen-Inducible Nuclear Orphan Receptor by Interleukin 1 in Human Synovial and Gingival Fibroblasts", Biochem. And Biophys. Res. Comm. 251:334-338 (1998).
	BM	Born, T. et al., "Cloning of a Novel Receptor Subunit, AcPL, Required for Interleukin-18 Signaling", J. of Biol. Chem. 273 (45): 29445-29450 (Nov. 6, 1998).
	BN	Bradley, A. and Elizabeth Robertson, "Embryo-Derived Stem Cells: A Tool for Elucidating the Developmental Genetics of the Mouse", Curr. Topics in Dev. Biol. 20: 357-371 (1986).
	BO	Bradley, A. et al., "Formation of germ-line chimaeras from embryo-derived teratocarcinoma cell lines", Nature 309: 255-256 (May 17, 1984).
↓	BP	Brinster, R. et al., "Regulation of metallothionein-thymidine kinase fusion plasmids injected into mouse eggs", Nature 296: 39-42 (March 4, 1982).

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 BR Busfield, S. et al., "Identification and Gene Organization of Three Novel Members of the IL-1 Family on Human Chromosome 2", *Genomics* 66:213-216 (2000).

BS Carrié, A. et al., "A new member of the IL-1 receptor family highly expressed in hippocampus and involved in X-linked mental retardation", *Nature Genetics* 23: 25-31 (September 1999).

BT Chen, S., "Gene therapy for brain tumors: Regression of experimental gliomas by adenovirus-mediated gene transfer *in vivo*", *PNAS* 91: 3054-357 (April 1994).

BU Chumakov, I., "A YAC contig map of the human genome", *Nature* 377 (Supp): 175-183 (Sept. 1995).

BV Clay, F., "Novel interleukin-1 receptor antagonist exon polymorphisms and their use in allele-specific mRNA assessment", *Hum. Genet.* 97: 723-726 (1996).

BW Cohen, A. et al., "Emerging Technologies for Sequencing Antisense Oligonucleotides: Capillary Electrophoresis and Mass Spectrometry", *Adv in Chrom.* 36: 128-162 (1995).

BX Colotta, F. et al., "Rapid Killing of Actinomycin D-treated Tumor Cells By Human Mononuclear Cells", *J. of Immunol.* 132 (2):936-944 (February 1984).

BY Cotton, R. G. H., "Current Methods of Mutation Detection", *Mutation Res.* 285: 125-144 (1993).

BZ Cotton, R. G. H. et al., "Reactivity of cytosine and thymine in single-base-pair mismatches with hydroxylamine and osmium tetroxide and its application to the study of mutations", *PNAS* 85: 4397-4401 (June 1998).

CA Cwirla, S. et al., "Peptides on phage: A vast library of peptides for identifying ligands", *PNAS* 87: 6378-6382 (August 1990).

CB Dammann, O. and Alan Leviton, "Maternal Intrauterine Infection, Cytokines, and Brain Damage in the Preterm Newborn", *Pediatric Res.* 42(1): 1-8 (1997).

CC Dann, J. G. et al., "Human Renin: A New Class of Inhibitors", *Biochem. And Biophys. Res. Comm.* 134 (1):71-77 (January 14, 1986).

CD Dev, S. B. and G A. Hofmann, "Electrochemotherapy-a novel method of cancer treatment", *Cancer Treatment Rev.* 20: 105-115 (1994).

CE Devlin, J. et al, "Random Peptide Libraries: A Source of Specific Protein Binding Molecules", *Science* 249: 404-406 (July 27, 1990).

CF Dinarello, C., "Interleukin-1", *Cytokine & Growth Factor Reviews* 8(4):253-265 (1998).

CG Doetschman, T. et al., "The *in vitro* development of blastocyst-derived embryonic stem cell lines: formation of visceral yolk sac, blood islands, and myocardium", *J. Embryol.* 87: 27-45 (1985).

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FH		CI	Ellison, M. and Mark Hochstrasser, "Epitope-tagged Ubiquitin", J. of Biol. Chem. 266(31):21150-21157 (1991).
		CJ	Evans, D. et al., "An engineered poliovirus chimaera elicits broadly reactive HIV-1 Neutralizing antibodies", Nature 339: 385-388 (June 1, 1989).
		CK	Ewenson, A. et al., "Ketomethylene Pseudopeptide Analogues of Substance P: Synthesis and Biological Activity" J. Med. Chem. 29: 295-299 (1986).
		CL	Feng, D. and Russell F. Doolittle, "Progressive Sequence Alignment as a Prerequisite to Correct Phylogenetic Trees", J. Mol Evol. 25: 351-360 (1987).
		CM	Futreal, P. A. et al., "Isolation of a diverged homeobox gene, MOX1, from the BRCA1 region on 17q21 by solution hybrid capture", Hum. Mol. Genet. 3(8): 1359-1364 (1994).
		CN	Gabay, C. et al., "Interleukin 1 Receptor Antagonist (IL-1Ra) is an Acute-Phase Protein", J. Clin. Invest. 99(12): 2930-2940 (June 1997).
		CO	Gautier, C. et al., " α -DNA IV: β -anomeric tetrahydymidylates covalently linked to intercalating oxazolopyridocarbazole. Synthesis, physiochemical properties and poly (rA) binding", Nucl. Acids Res. 15(16): 6625-6641 (1987).
		CP	Ghanshani, S. et al., "Human Calcium-Activated Potassium Channel Gene KCNN4 Maps to Chromosome 19q13.2 in the Region Deleted in Diamond-Blackfan Anemic", Genomics 51:160-161 (1998).
		CQ	Gibbs, R. et al., "Detection of single DNA base differences by competitive oligonucleotide priming", Nucl. Acids Res. 17(7): 2437-2448 (1989).
		CR	Stein, C. A. et al., "Phsiochemical properties of phosphorthioate oligodeoxynucleotides", Nucl. Acids Res. 16(8): 3209-3221 (1988).
		CS	Gordon, E. M. et al., "Design of Peptide Derived Amino Alcohols as Transition-State Analog Inhibitors of Angiotensin Converting Enzyme", Biochem. and Biophys. Res. Comm. 126(1): 419-426 (January 16, 1985).
		CT	Habig, W. et al., "Gluthathione S-Transferases", J. of Biol. Chem. 249(22): 7130-7139 (Nov. 24, 1974).
		CU	Hayashi, K., "PCR-SSCP: A Method for Detection of Mutations", GATA 9(3): 73-79 (1992).
		CV	Helene, C., "The anti-gene strategy: control of gene expression by triplex-forming-oligonucleotides", Anti-Cancer Drug Design 6: 569-584 (1991).
		CW	Helene, C. et al., "Control of Gene Expression by Triple Helix-Forming Oligonucleotides", Ann. NY Acad. Sci. 660: 27-36 (1992).
		CX	Hildebrandt, F. et al., "Physical mapping of the gene for juvenile nephronophthisis (NPH1) by construction of a complete YAC contig of 7 Mb on chromosome 2q13", Cytogenet. Cell Genet. 73: 235-239 (1996).

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DD Ioffe, E. et al., "WW⁺: An embryonic stem cell line with an inert genetic marker that can be traced in chimeras", PNAS 92: 7357-7361 (August 1995).DE Itakura, K. et al., "Expression in *Escherichia coli* of a Chemically Synthesized Gene for the Hormone Somatostatin", Science 198: 1056-1063 (Dec. 9, 1977).

DF Itakura, K. et al., "Synthesis and Use of Synthetic Oligonucleotides", Ann Rev. Biochem 53: 323-356 (1984).

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DL Kozbor, D. and John C. Roder, "The Production of monoclonal antibodies from human lymphocytes", Immunol. Today 4(3): 72-72 (1983).

DM Kuppuswamy, M. et al., "Single nucleotide primer extension to detect genetic diseases: Experimental application to hemophilia B (factor IX) and cystic fibrosis genes", PNAS 88: 1143-1147 (Feb. 1991).

DN Landegren, U. et al., "A Ligase-Mediated Gene Detection Technique", Science 241: 1077-1080 (Aug. 26, 1988).

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DQ	Letsinger, R. et al., "Cholesteryl-conjugated oligonucleotides: Synthesis, properties, and activity as inhibitors of replication of human immunodeficiency virus in cell culture", <i>PNAS</i> 86: 6553-6556 (Sept. 1989).
DR	Lennon, G. et al., "The I.M.A.G.E. Consortium: An Integrated Molecular Analysis of Genomes and their Expression", <i>Genomics</i> 33: 151-152 (1996).
DS	Li, Z. et al., "The IKK β Subunit of I κ Kinase (IKK) is Essential for Nuclear Factor κ B Activation and Prevention of Apoptosis", <i>J. Exp. Med.</i> 198(11): 1839-1845 (June 7, 1999).
DT	"Maher, L., "DNA Triple-Helix Formation: An Approach to Artificial Gene Repressors?", <i>BioEssays</i> 14(12): 807-815 (Dec. 1992).
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DV	Merika, M. and Stuart H. Orkin, "DNA-Binding Specificity of GATA Family Transcription Factors", <i>Mol. Cell. Biol.</i> 13(&): 3999-4010 (July 1993).
DW	Miller, C. et al., "N-terminal methionine-specific peptidase in <i>Salmonella typhimurium</i> ", <i>PNAS</i> 84: 2718-2722 (May 1987).
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DZ	Molnar, A. and Katia Georgopoulos, "The Ikaros Gene Encodes a Family of Functionally Diverse Zinc Finger DNA-Binding Proteins", <i>Mol. Cell. Biol.</i> 14(12): 8292-8303 (Dec. 1994).
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EC	Myers, R. et al., "Detection of Single Base Substitutions by Ribonuclease Cleavage at Mismatches in RNA:DNA Duplexes", <i>Science</i> 230: 1242-1246 (Dec. 13 1985).
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EE	Nagai, U. and Kazuki Sato, "Synthesis of a Bicyclic Dipeptide with the Shape of β -Turn Central Part", <i>Tetrahedron Letters</i> 26(5): 647-650 (1985).
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EX	Saito, R. et al., "Genetic analysis of amplified DNA with immobilized sequence-specific oligonucleotide probes", PNAS 86: 230-6234 (Aug. 1989).
EY	Saleeba, J. and Richard G.H. Cotton, "Chemical Cleavage of Mismatch to Detect Mutations", Meth. In Enzymol. 217: 26-295 (1993).
EZ	Sarin, P. et al., "Inhibition of acquired immunodeficiency syndrome virus by oligodeoxynucleoside methylphosphonates", PNAS 85: 7448-7451 (Oct. 1988).
FA	Barber, N. et al., "Ribozymes as Potential Anti-HIV-1 Therapeutic Agents", Science 247: 1222-1225 (March 9, 1990).
FB	Scott, J. et al., "Searching for Peptide Ligands with an Epitope Library", Science 249:386-390 (July 27, 1990).
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FD	Schpaer, E., "GeneAssist: Smith-Waterman and Other Database Similarity Searches and Identification of Motifs", Meth. Mol. Biol. 70: 173-187 (1997).
FE	Schultz, J. et al., "SMART, a simple modular architecture research tool: Identification of signaling domains", PNAS 95: 5857-5864 (May 1998).
FF	Sims, J. et al., "cDNA Expression Cloning of the IL-1 Receptor, a Member of the Immunoglobulin Superfamily", Science 241: 585-589 (July 28, 1988).
FG	Sizemore, N. et al., "Activation of Phosphatidylinositol 3-Kinase in Response to Interleukin-1 Leads to Phosphorylation and Activation of THE NF- κ B P65/Rela Subunit", Mol. Cell. Biol. 19(7): 4798-4805 (July 1999).
FH	Smith, D. et al., "Four New Members Expand the Interleukin-1 Superfamily", J. Biol. Chem. 275(2):1169-1175 (Jan. 14, 2000).
FI	Smith, T. et al., "Comparison of Biosequences", Adv. Appl. Math. 2:482-489 (1981).
FJ	Smithies, O. et al., "Insertion of DNA sequences into the human chromosomal β -globin locus by homologous recombination", Nature 317: 230-234 (Sept. 19, 1985).
FK	Sokolov, B., "Primer extension technique for the detection of single nucleotide in genomic DNA", Nucl. Acids Res. 18(12): 3671 (1990).
FL	Sozzani, S. et al., "Receptor Expression and Responsiveness of Human Dendritic Cells to a Defined Set of CC and CXC Chemokines", J. of Immunol. 159: 1993-2000 (1997).
FM	Stein, C. A. and Jack S. Cohen, "Oligodeoxynucleotides as Inhibitors of Gene Expression: A Review" Cancer Research 48: 2659-2668 (1988).
FN	Studier, F. et al., "Use of T7 RNA Polymerase to Direct Expression of Cloned Genes", Meth. In Enzymol 185: 60-89 (1990).

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Docket Number (Optional)
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09/617,720Applicant
Nicklin et al.Filing Date
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			Applicant Nicklin et al.			
			Filing Date July 17, 2000		Group Art Unit 1646	
U.S. PATENT DOCUMENTS						
EXAMINER INITIALS <i>CH</i>	DOCUMENT NUMBER <i>5,837,495</i>	DATE <i>11/17/98</i>	NAME <i>Colotta et al.</i>	CLASS <i>435</i>	SUBCLASS <i>69.1</i>	FILING DATE IF APPROPRIATE <i>08/13/97</i>
<i>MAY 03 2001</i> <i>PATENT & TRADEMARK OFFICE</i>						
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<i>CH</i>	GI WO 95/35304	12/28/95	PCT			<input checked="" type="checkbox"/> X
	GJ WO 98/44150	10/08/98	PCT			<input checked="" type="checkbox"/> X
	GK WO 98/53054	11/26/98	PCT			<input checked="" type="checkbox"/> X
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FH	HA	WO 99/35268	7/15/99	PCT				X
	HB	WO 98/47921	10/29/98	PCT				X
	HC	WO 00/20595	4/13/00	PCT				X
	HD	WO 00/39297	7/6/00	PCT				X
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